Center for Advanced Composites Manufacturing and Engineering

Dr. A. Brent Strong/Brigham Young University/Provo, Utah

Established July 1990 to assist existing and start-up composite manufacturing companies within the state. Assistance includes technical trouble-shooting, unique testing, prototype development or solving other commercial problems. The Center also supports product development in unique composites and plastics technology which can be spun off into private companies.

Overview

Current State Contract $165,000

FY92 Matching Funds $1,239,413
Cumulative $2,283,541

Total Jobs Created 111
Industry 81
Center 30

Direct Center Spin-offs 19

Total Benefiting Utah Companies34

License Agreements 1

Patents Applied 3

Patents Issued 1

Technologies

*Basic composite and plastic manufacturing technologies:

-pultrusion filament winding
-lay-up/laminating
-resin transfer molding (RTM)
-ceramic sintering
-injection molding
-extrusion
-compression molding
-blow molding
-rotational molding
-vacuum forming

*Various testing methods

*Unique vibration damping and cure sensing

*Rapid prototyping

*Plasma treatment

Status

*National technology workshop held w/NIST. Highest attendance of any NIST workshops in any state

*3 technical books published and 39 technical presentations given

*4 technical conferences, including one that brought together Utah's composite and medical device manufacturers

Economic Impact

*Assisted 12 new companies bringing total to 77

*Assisted in launches of 9 new companies during 1992

*Assisted in obtaining $300,000 in contracts, bringing total to $16.8 million and over 500 new jobs

*2 on-site training courses developed for Utah companies

*Received a materials grant of over $800,000 from McDonnell Douglas

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